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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/644,327	08/23/2000	Kenji Uchiyama	9319S-000155	1081
7590	10/01/2003		EXAMINER	
Harness Dickey & Pierce PLC P O Box 828 Bloomfield Hills, MI 48303			DUDEK, JAMES A	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 10/01/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/644,327	UCHIYAMA, KENJI
Examiner	Art Unit	
James A. Dudek	2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1 and 4-22 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) 1 and 4-21 is/are allowed.
- 6) Claim(s) 22 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.
 

If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                    | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over the 6323930 in view of Kim et al patent ('856).

Per claims 22, 930 a liquid crystal device comprising: a first substrate having a first face, said first substrate being provided with a first electrode [1,11]; a second substrate having a second face opposing said first face of said first substrate, said second face being provided with a second electrode [2,12]; a liquid crystal interposed between said first and second faces [10]; a protruding portion of said first substrate protruding outwardly relative to said second substrate [IC chip portion beyond substrate 2], said first electrode extending from an area where said first and second substrates oppose each other to said protruding portion [see 11 of figure 9]; a driver IC mounted on said protruding portion [LSI], an aluminum electrode [the electrode 11 is ITO, however, it is obvious to use Al, see below] formed on said first substrate, said first electrode electrically connected to said driver IC [see figure 5 and 9]; said aluminum electrode electrically connecting said driver IC and said second electrode [see figures 5-7]; and

an area where said aluminum electrode is connected to said driver IC [electrode 11 is connected to the LSI], and an area where said aluminum electrode is connected to said second electrode [the electrode 11 is connected to the IC similar to applicants embodiment, that is electrode 11 is the same as the aluminum electrode and it would be obvious to form it as aluminum].

Regarding the aluminum electrode, it was well known to for pixel electrodes such as 930 as aluminum in order to create a reflecting electrode and thus decrease power consumption. Accordingly, it would have been obvious to one of ordinary skill at the time the invention was made to use aluminum for the material of 930's electrode 11.

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Regarding the overcoat, 856 teaches an overcoat layer of an inorganic substance [protective coat 124] covering said first electrode [gate line 12] and said aluminum electrode [also gate line 12, similar to applicant's embodiments], said overcoat layer being omitted from an area where said first electrode is connected to said driver IC [also shown in 856]. 856 teaches using this for protection as suggested by the name of the layer [protective coating 124]. Furthermore, 930 teaches using a resin protective coat 32 which also protects the electrodes 11. Accordingly, it would have been obvious to one of ordinary skill at the time the invention was made to combine the protective coating of 856 with 930 to provide protection of the electrodes 11.

Regarding the insulator, the overcoat 32 of 930 would be the insulating layer.

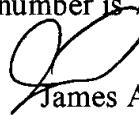
***Response to Arguments***

Applicant's arguments filed 5/11/03 have been fully considered but they are not persuasive. Applicant argues that the protection layer is claimed as protecting the cell from water, however, nowhere does claim 22 recite this limitation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 308-4782. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 703-305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7721 for regular communications and 703-308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.



James A. Dudek  
Primary Examiner  
Art Unit 2871

September 30, 2003



FORM HDR-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

Sheet 1 of 1

ATTORNEY DOCKET NO.	SERIAL NO.
9319S-000155	09/644,327
APPLICANT	
Kenji Uchiyama	
FILING DATE	GROUP
August 23, 2000	2871

**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.						

**FOREIGN PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation * Yes      No
1.	○	03-058026	3/13/1991	Japan		X
2.	○	03-026121		Japan		X
3.	○	07-311385	11/28/1995	Japan		X
4.	○	11-024096	1/29/1999	Japan		X

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

Ref. Desig.	Examiner's Initials	
1.		Examination report from corresponding Japanese Application No. 11-241570.

\* One or more of the English translation documents submitted herewith may be Abstracts only or partial machine created translations from the Japanese Patent Office. As such, the submitter does not necessarily vouch for their accuracy. Additional information may be obtained from the Japanese Patent Office web site at [www.jpo.go.jp](http://www.jpo.go.jp).

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.